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APPLICATION NO	. F	ILING DATE	FIRST NAMED INVENTOR	ATTORNEY DOCKET NO.	CONFIRMATION NO.	
10/058,495	<u>-</u>	01/28/2002	Richard King	265280-68002	2189	
23643	7590	03/21/2006		EXAM	EXAMINER	
BARNES		-		RAMANA, ANURADHA		
	I MERIDIA POLIS, IN			ART UNIT	PAPER NUMBER	
	,			3733	. <u>-</u>	

DATE MAILED: 03/21/2006

Please find below and/or attached an Office communication concerning this application or proceeding.

			6
	is 37 CFR 1.136(a). In no event, however, may a reply be timely filed nication. utory period will apply and will expire SIX (6) MONTHS from the mailing date of this communication, by statute, cause the application to become ABANDONED (35 U.S.C. § 133). The rether mailing date of this communication, even if timely filed, may reduce any on 29 December 2005. This action is non-final. Or allowance except for formal matters, prosecution as to the ments are under Ex parte Quayle, 1935 C.D. 11, 453 O.G. 213. Is/are pending in the application. Indeed 63 is/are withdrawn from consideration.		
	10/058,495	KING ET AL.	
Office Action Summary	Examiner	Art Unit	
	Anu Ramana	3733	
The MAILING DATE of this communication Period for Reply	appears on the cover sheet w	th the correspondence address	
· ·	EDI VIQ SET TO EYDIRE 3 M	ONTH(S) OR THIRTY (30) DAY:	S
WHICHEVER IS LONGER, FROM THE MAILING - Extensions of time may be available under the provisions of 37 CF after SIX (6) MONTHS from the mailing date of this communication. - If NO period for reply is specified above, the maximum statutory period for reply within the set or extended period for reply will, by significant or the set of the	G DATE OF THIS COMMUNIC R 1.136(a). In no event, however, may a r to triod will apply and will expire SIX (6) MON latute, cause the application to become Al	CATION. eply be timely filed ITHS from the mailing date of this communication BANDONED (35 U.S.C. § 133).	
Status			
1) Responsive to communication(s) filed on 2	<u> 9 December 2005</u> .		
2a)⊠ This action is FINAL . 2b)□	This action is non-final.	•	
			is
closed in accordance with the practice und	ler <i>Ex parte Quayle</i> , 1935 C.[), 11, 453 O.G. 213.	
Disposition of Claims			
4) Claim(s) 49,50,52-59,61-63 and 124 is/are	pending in the application.	•	
4a) Of the above claim(s) <u>53,54,62 and 63</u>		eration.	
5) Claim(s) <u>49-50, 52 and 55</u> is/are allowed.	•		
6) Claim(s) <u>56-59,61 and 124</u> is/are rejected.	•		
7) Claim(s) is/are objected to.			
8) Claim(s) are subject to restriction a	nd/or election requirement.		
Application Papers			
9) The specification is objected to by the Exar	miner.		
10)⊠ The drawing(s) filed on 28 January 2002 is		bjected to by the Examiner.	
Applicant may not request that any objection to	the drawing(s) be held in abeya	nce. See 37 CFR 1.85(a).	
Replacement drawing sheet(s) including the co			
11)☐ The oath or declaration is objected to by th	e Examiner. Note the attache	d Office Action or form PTO-152.	
Priority under 35 U.S.C. § 119			
12) ☐ Acknowledgment is made of a claim for for a) ☐ All b) ☐ Some * c) ☐ None of:	eign priority under 35 U.S.C.	§ 119(a)-(d) or (f).	٠
1. Certified copies of the priority docur	nents have been received.		
2. Certified copies of the priority docur		Application No	
3. Copies of the certified copies of the			
application from the International Bu	ıreau (PCT Rule 17.2(a)).		
* See the attached detailed Office action for a	a list of the certified copies no	received.	
Attachment(s)	•	•	
1) Notice of References Cited (PTO-892)	· 	Summary (PTO-413)	
 2) Notice of Draftsperson's Patent Drawing Review (PTO-944) 3) Information Disclosure Statement(s) (PTO-1449 or PTO/S 	B/08) 5) Notice of	(s)/Mail Date Informal Patent Application (PTO-152)	
Paper No(s)/Mail Date <u>7/1/05; 12/29/05</u> .	6)	·	

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DETAILED ACTION

Claim Rejections - 35 USC § 103

The following is a quotation of 35 U.S.C. 103(a) which forms the basis for all obviousness rejections set forth in this Office action:

(a) A patent may not be obtained though the invention is not identically disclosed or described as set forth in section 102 of this title, if the differences between the subject matter sought to be patented and the prior art are such that the subject matter as a whole would have been obvious at the time the invention was made to a person having ordinary skill in the art to which said subject matter pertains. Patentability shall not be negatived by the manner in which the invention was made.

Claims 56-59, 61 and 124 are rejected under 35 U.S.C. 103(a) as being unpatentable over Devanathan et al. (US 5,645,594) in view of McKellop et al. (US 6,165,220).

Devanathan et al. disclose a composite polymer implant having multiple layers formed by compression molding under pressure and temperature wherein during molding the PMMA melts and forms an inter-penetrating polymer network or "melt-fused" interface (Fig. 2 and col. 2, lines 10-65).

Devanathan et al. disclose all elements of the claimed invention except for irradiated crosslinked layers of polymer.

McKellop et al. teach irradiating the bearing surface of a UHMWPE cup using e-beam irradiation to produce gradient cross-linking on its bearing surface for wear resistance wherein the necessary dosage to achieve the desired penetration or crosslinking profile can be calculated (col. 7, lines 25-67, col. 8, lines 1-29 and col. 9, lines 19-31).

Accordingly it would have been obvious to one of ordinary skill in the art at the time the invention was made to have irradiated the Devanathan et al. implant with e-beam irradiation, as taught by McKellop et al., to produce gradient cross-linking on its bearing surface for wear resistance.

It is noted that irradiation of the implant of the combination of Devanathan et al. and McKellop et al. would result in the layers having different degrees of crosslinking.

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Response to Arguments

Applicant's arguments with respect to claims 49-50, 52, 55-59, 61 and 124 submitted under "REMARKS" in the response filed on December 29, 2005 have been carefully considered.

Applicants' arguments with respect to the rejections of claims 56-59, 61 and 124 are most in view of the new grounds of rejection.

Allowable Subject Matter

Claims 49-50, 52 and 55 are allowed.

. Conclusion

Applicant's amendment necessitated the new ground(s) of rejection presented in this Office action. Accordingly, **THIS ACTION IS MADE FINAL**. See MPEP § 706.07(a). Applicant is reminded of the extension of time policy as set forth in 37 CFR 1.136(a).

A shortened statutory period for reply to this final action is set to expire THREE MONTHS from the mailing date of this action. In the event a first reply is filed within TWO MONTHS of the mailing date of this final action and the advisory action is not mailed until after the end of the THREE-MONTH shortened statutory period, then the shortened statutory period will expire on the date the advisory action is mailed, and any extension fee pursuant to 37 CFR 1.136(a) will be calculated from the mailing date of the advisory action. In no event, however, will the statutory period for reply expire later than SIX MONTHS from the date of this final action.

Any inquiry concerning this communication or earlier communications from the examiner should be directed to Anu Ramana whose telephone number is (571) 272-4718. The examiner can normally be reached Monday through Friday between 8:00 am to 5:00 pm.

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If attempts to reach the examiner by telephone are unsuccessful, the examiner's supervisor, Kevin Shaver can be reached at (571) 272-4720. The fax phone number for the organization where this application or proceeding is assigned is 703-872-9306.

Information regarding the status of an application may be obtained from the Patent Application Information Retrieval (PAIR) system. Status information for published applications may be obtained from either Private PAIR or Public PAIR. Status information for unpublished applications is available through Private PAIR only. For more information about the PAIR system, see http://pair-direct.uspto.gov. Should you have questions on access to the Private PAIR system, contact the Electronic Business Center (EBC) at 866-217-9197 (toll-free).

AR Anuadha Ramara March 17, 2006

> EDUARDO G. ROBERT SUPERVISORY PATENT EXAMINER